



CATALOGUE NO. 6235.0

NOON 10 JUNE 1983

### LABOUR FORCE STATUS AND EDUCATIONAL ATTAINMENT, AUSTRALIA, FEBRUARY 1982

**PHONE INQUIRIES** *for more information about these statistics*—contact Ms Susan Purcell on Canberra (062) 52 6503 or any of our State offices.  
*other inquiries including copies of publications*—contact Information Services on Canberra (062) 52 6627 or in any of our State offices.

**MAIL INQUIRIES** *write to* Information Services, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any of our State offices.

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## EXPLANATORY NOTES

### Introduction

In association with the February 1982 labour force survey conducted throughout Australia, persons aged fifteen years and over were asked about their highest educational qualification. For persons with post-school qualifications, the information sought includes field of study, and for those who did not complete their schooling, it includes the age at which they left school.

2. During the two weeks beginning Monday 8 February, 1982, specially trained interviewers asked the questions of a sub-sample of 50,000 of the 69,000 respondents in the February labour force survey.

3. Results of similar surveys, the first conducted in February 1979 have been published in *The Labour Force: Educational Attainment, Australia* (6235.0).

### Scope

4. The survey includes all civilians aged fifteen years and over except:

- (a) certain diplomatic personnel of overseas governments, customarily excluded from census and estimated populations;
- (b) overseas visitors holidaying in Australia;
- (c) dependants of non-Australian defence forces personnel stationed in Australia;
- (d) students boarding at school, some patients in hospitals and sanatoria and inmates of jails, reformatories etc.

### Definitions

5. Definitions of the principal labour force categories appearing in this publication are given in *The Labour Force, Australia* (6203.0), but it should be noted that there are slight differences in the estimates for labour force categories shown in these publications. This is due to the different sizes of the samples used and the inability to obtain from a small number of persons the additional information required for the educational qualifications survey. Although the estimation procedures take account of these factors, estimates for some characteristics will be affected.

6. *Persons with a post-school qualification* are those who had left school and answer 'Yes' to the question: 'Since leaving school have you obtained a certificate, diploma, degree or any other qualification?'

7. *Classification of post-school qualifications.* Respondents indicate which one of the following groups best describes their highest qualification:

- (a) *Degree or equivalent:* a bachelor degree (including honours), a graduate or post-graduate diploma, masters degree or a doctorate;

(b) *Trade, technical:* completion of an approved trade/technician apprenticeship or training course, other certificate or diploma in secretarial or business studies, administration, teaching, nursing, etc.;

(c) *Other:* completion of other post-secondary education e.g. adult education, preparatory/bridging course or hobby course.

8. *Classification of field of study.* Respondents with a degree, trade or technical qualification (i.e. (a) or (b) in paragraph 7) indicate the field of study for their highest qualification (See Tables 4 and 5).

9. *Highest level of secondary school available* refers to the highest level of secondary schooling (or equivalent) offered by the education system at the time the respondent left school.

10. *Still at school.* Current school attendance is recorded only for persons aged fifteen to twenty years.

### Comparability of the estimates

11. Educational attainment of persons not in the labour force is not available for the February 1979, 1980 and 1981 surveys which only covered persons in the labour force.

12. Estimates in this series are not strictly comparable with those from the population censuses due to differences in questions and coding methodology.

### Reliability of the estimates

13. Estimates in this publication are subject to two sources of error:

- (a) *sampling error:* since the estimates are based on information obtained from occupants of a sample of dwellings, they may differ from the figures that would have been produced if all dwellings had been included in the survey. More information on this topic is given in the Technical note.
- (b) *Non-sampling error:* inaccuracies may occur because of imperfections in reporting by interviewers and respondents and errors made in the coding and processing of data. These inaccuracies may occur in any enumeration, whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers and efficient operating procedures.

### Related publications

14. Other ABS publications which may be of interest include:

*The Labour Force, Australia* (6203.0)—issued monthly

*Transition from Education to Work (Including leavers from schools, universities and other educational institutions), Australia, May 1981(6227.0)*

15. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia*(1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice*(1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

#### **Symbols and other usages**

\* subject to sampling variability too high for most practical uses. See paragraph 13 above.

n.e.c. not elsewhere classified

.. not applicable

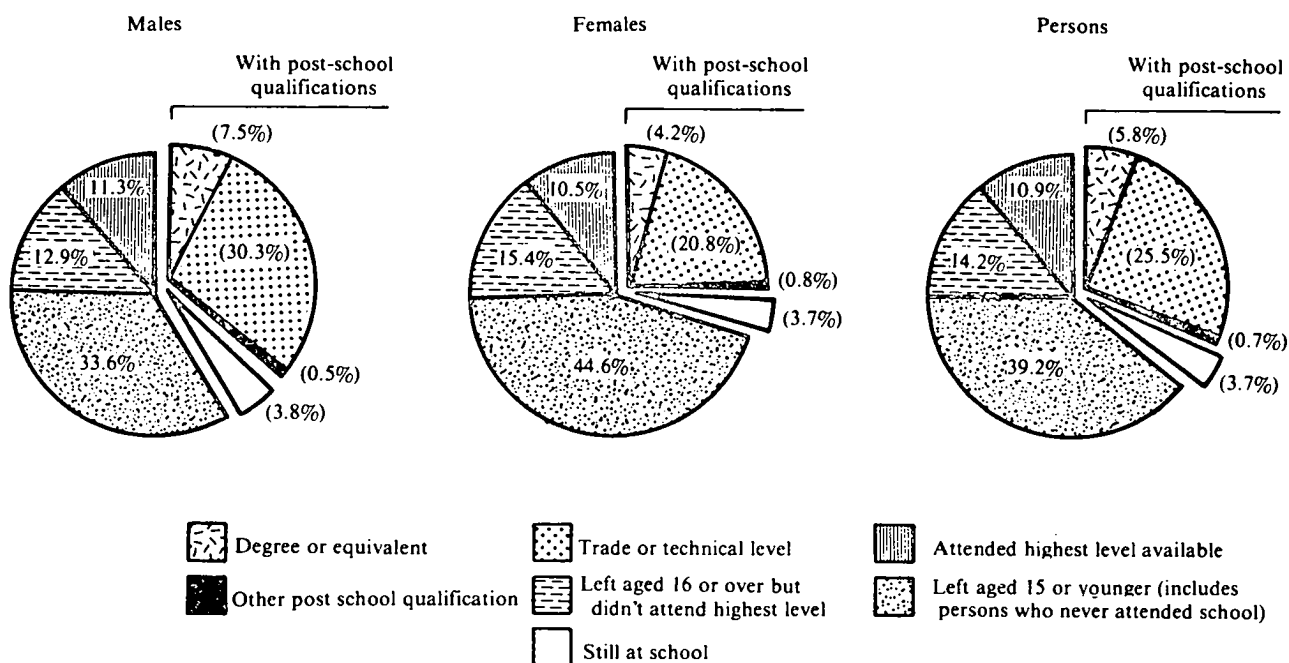
16. Because figures have been rounded, discrepancies may occur between sums of the component items and totals.

**A. R. BAGNALL**  
Acting Australian Statistician

## SUMMARY OF FINDINGS

Of the civilian population 15 years and over, 32.0 per cent (3,532,200 persons) have a post-school qualification including 645,100 with a degree or equivalent and 2,811,400 with a trade or technical level qualification. Of the 7,085,700 persons over the age of 15 who do not have a post-school qualification 5,833,300 have not attended the highest level of secondary school. A total of 4,273,800 persons, 38.7 per cent of the population, did not attend school beyond 15 years of age. The level of education amongst males is higher than amongst females with 38.4 per cent of males possessing post-school qualifications compared with only 25.8 per cent of females. Females have also been less likely to finish school than males - 59.5 per cent of females have not attended the highest level of secondary school available compared with 46.2 per cent for males.

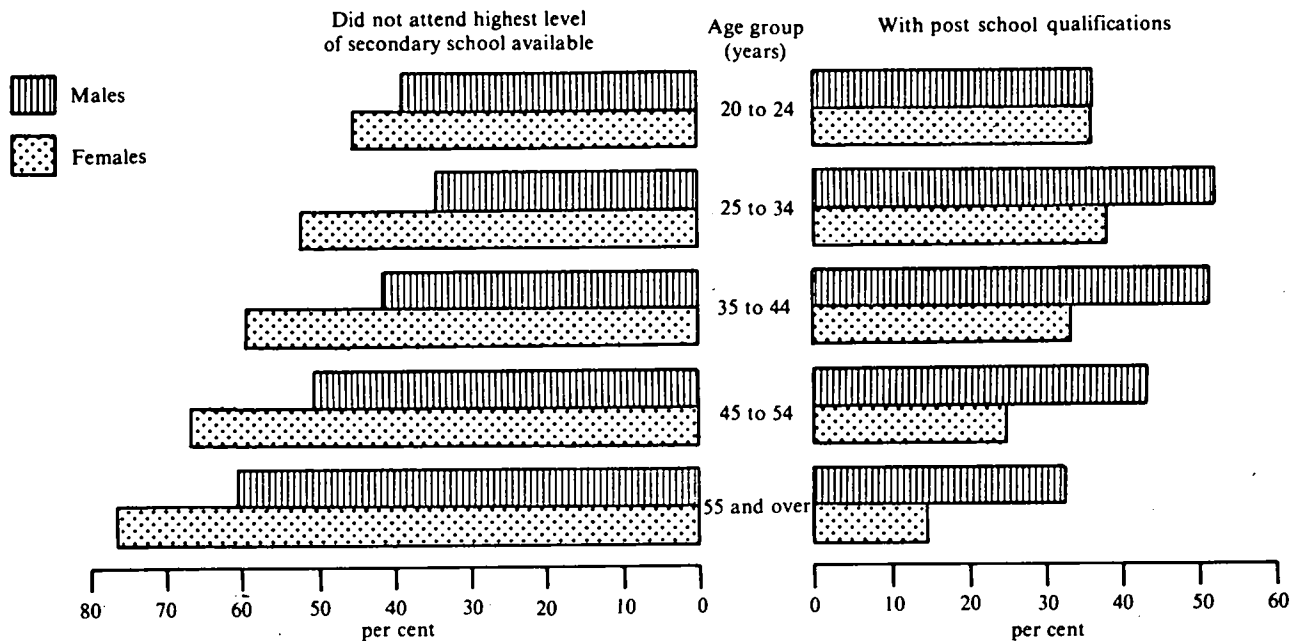
**DIAGRAM 1. EDUCATIONAL ATTAINMENT OF THE POPULATION AGED 15 AND OVER**  
(Source of data : Table 2)



The patterns of educational attainment have been changing over time. The younger age groups are more likely to have completed their schooling and have obtained post-school qualifications than is the case amongst older people. Of those aged 25 to 34, 44.7 per cent have post-school qualifications compared with 22.6 per cent for those aged 55 and over. The corresponding figures for those who have not attended the highest level of school are 43.3 per cent for those aged 25 to 34 and 69.2 per cent for those aged 55 and over.

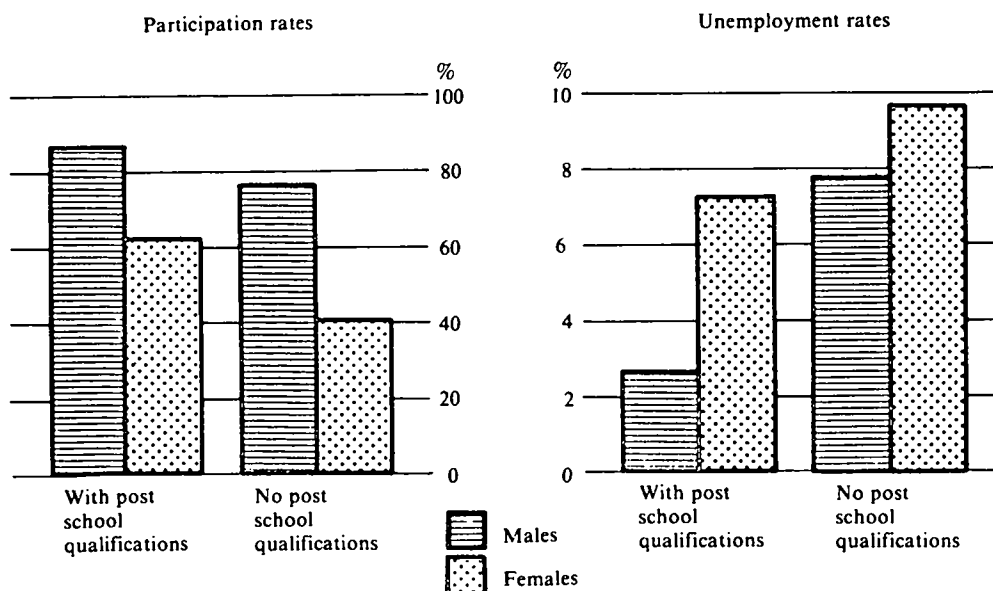
The disparity in educational attainment between males and females also appears to be changing. The percentages of males and females in the 20 to 24 year age group who left school without attending the highest level (39.2 per cent for males and 45.3 per cent for females) are much closer than for older age groups. This change has been due to the combined effect of females increasingly choosing to stay at school longer and the more recent phenomenon of males tending to leave school early. The general tendency of females to take courses of shorter duration and thus qualify at an earlier age than males influences the comparison of males and females in the 20 to 24 year age group with post-school qualifications.

**DIAGRAM 2. PROPORTION BY AGE : PERSONS WITH A POST-SCHOOL QUALIFICATION AND PERSONS WHO LEFT SCHOOL WITHOUT ATTENDING THE HIGHEST LEVEL OF SECONDARY SCHOOL AVAILABLE**  
(Source of data : Table 2)



Education appears to be an important factor in determining a person's ability to secure employment. Of those persons with a post-school qualification 77.5 per cent were in the labour force, of which 4.2 per cent were unemployed. This compares with a labour force participation rate of 57.1 per cent and an unemployment rate of 8.6 per cent for those without post-school qualifications. The unemployment rate for females with a post-school qualification was 7.3 per cent compared with a corresponding figure of 2.7 per cent for males.

**DIAGRAM 3. PARTICIPATION AND UNEMPLOYMENT RATES**  
(Source of data : Table 1)



The relationship between unemployment and educational attainment has remained much the same over the period February 1979 to February 1982, a period of relatively stable unemployment rate. The unemployment rate for those with a degree or equivalent increased from 2.8 per cent to 3.9 per cent, this being the only group which is apparently significantly worse off in regard to unemployment in February 1982 than in February 1979.

**DIAGRAM 4. UNEMPLOYMENT RATES, 1979 TO 1982**  
(Source of data : Table 16)

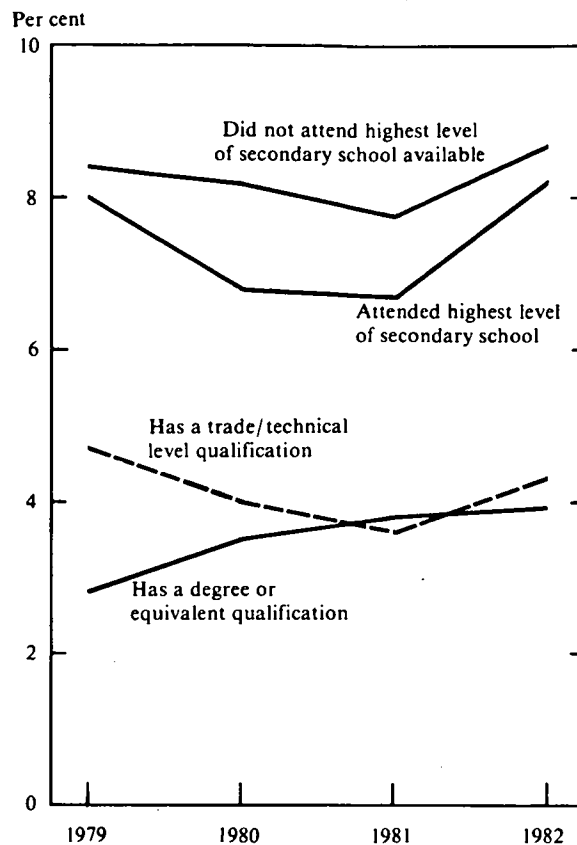


TABLE 1. CIVILIAN POPULATION AGED 15 YEARS AND OVER(a) : EDUCATIONAL ATTAINMENT AND EMPLOYMENT STATUS, FEBRUARY 1982

Educational attainment	Number('000)							Participation rate	Unemployment rate
	Employed			Unemployed	In the labour force	Not in the labour force	Total		
	Full-time	Part-time	Total						
— per cent —									
MALES									
With post-school qualifications	1,726.3	62.8	1,789.1	50.6	1,839.7	257.2	2,096.9	87.7	2.7
Degree or equivalent	344.4	19.2	363.7	8.4	372.1	38.9	410.9	90.5	2.3
Trade, technical level	1,356.9	42.3	1,399.2	41.6	1,440.9	215.3	1,656.1	87.0	2.9
Other	25.0	*	26.2	*	26.8	*	29.8	89.8	*
Without post-school qualifications	2,156.7	103.3	2,259.9	192.3	2,452.2	707.9	3,160.2	77.6	7.8
Attended highest level of secondary school available	455.5	27.8	483.3	35.2	518.5	96.2	614.7	84.3	6.8
Did not attend highest level of secondary school available and left at age—									
18 years or over	26.3	*	27.2	*	30.3	7.0	37.3	81.1	*
16 or 17 years	523.9	19.4	543.3	58.8	602.1	65.7	667.8	90.2	9.8
14 or 15 years	961.0	43.8	1,004.8	78.8	1,083.6	375.2	1,458.9	74.3	7.3
13 years or under	182.3	11.0	193.3	15.8	209.1	150.6	359.6	58.1	7.6
Total	1,693.5	75.1	1,768.6	156.5	1,925.0	598.6	2,523.6	76.3	8.1
Never attended school	7.7	*	8.1	*	8.7	13.1	21.8	40.0	*
Still at school	*	30.4	33.8	8.9	42.7	163.0	205.7	20.8	20.8
Total	3,886.4	196.5	4,082.9	251.7	4,334.7	1,128.1	5,462.8	79.3	5.8
FEMALES									
With post-school qualifications	579.0	254.0	833.0	65.5	898.5	536.9	1,435.4	62.6	7.3
Degree or equivalent	116.7	37.2	153.9	12.8	166.7	67.5	234.2	71.2	7.7
Trade, technical level	449.1	206.5	655.5	50.8	706.3	449.0	1,155.3	61.1	7.2
Other	13.2	10.3	23.5	*	25.5	20.4	45.9	55.5	*
Without post-school qualifications	938.3	502.1	1,440.4	155.4	1,595.7	2,329.8	3,925.6	40.6	9.7
Attended highest level of secondary school available	197.6	86.0	283.7	33.6	317.2	267.1	584.3	54.3	10.6
Did not attend highest level of secondary school available and left at age—									
18 years or over	10.3	*	13.2	*	15.6	11.1	26.7	58.3	*
16 or 17 years	277.4	119.3	396.7	44.8	441.5	386.2	827.7	53.3	10.1
14 or 15 years	385.5	263.9	649.4	65.4	714.9	1,326.8	2,041.6	35.0	9.2
13 years or under	64.0	28.5	92.5	8.9	101.3	312.3	413.6	24.5	8.7
Total	737.2	414.7	1,151.9	121.4	1,273.3	2,036.4	3,309.7	38.5	9.5
Never attended school	*	*	4.8	*	5.2	26.3	31.5	16.5	*
Still at school	*	39.8	41.3	11.8	53.0	151.3	204.3	26.0	22.2
Total	1,518.8	795.8	2,314.6	232.7	2,547.3	3,018.0	5,565.2	45.8	9.1
PERSONS									
With post-school qualifications	2,305.3	316.8	2,622.1	116.1	2,738.2	794.0	3,532.2	77.5	4.2
Degree or equivalent	461.1	56.4	517.6	21.2	538.8	106.3	645.1	83.5	3.9
Trade, technical level	1,806.0	248.8	2,054.8	92.4	2,147.2	664.3	2,811.4	76.4	4.3
Other	38.2	11.6	49.7	*	52.3	23.4	75.7	69.0	*
Without post-school qualifications	3,095.0	605.3	3,700.3	347.7	4,048.0	3,037.7	7,085.7	57.1	8.6
Attended highest level of secondary school available	653.1	113.8	766.9	68.7	835.7	363.4	1,199.0	69.7	8.2
Did not attend highest level of secondary school available and left at age—									
18 years or over	36.6	*	40.4	5.4	45.8	18.2	64.0	71.6	11.8
16 or 17 years	801.3	138.8	940.1	103.5	1,043.6	451.9	1,495.5	69.8	9.9
14 or 15 years	1,346.5	307.7	1,654.2	144.3	1,798.5	1,702.0	3,500.5	51.4	8.0
13 years or under	246.3	39.5	285.8	24.6	310.4	462.8	773.3	40.1	7.9
Total	2,430.7	489.8	2,920.5	277.9	3,198.4	2,634.9	5,833.3	54.8	8.7
Never attended school	11.2	*	12.9	*	14.0	39.4	53.4	26.1	*
Still at school	4.9	70.2	75.1	20.6	95.7	314.3	410.1	23.3	21.5
Total	5,405.2	992.3	6,397.5	484.4	6,881.9	4,146.1	11,028.0	62.4	7.0

(a) Excludes persons in institutions.

TABLE 2. CIVILIAN POPULATION AGED 15 AND OVER(a) EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1982

Educational attainment	Age group (years)						Total	
	15-19	20-24	25-34	35-44	45-54	55 and over	per cent	
	— '000—							
MALES								
With post-school qualifications	19.3	231.9	612.3	496.4	332.7	404.2	2,096.9	38.4
Degree or equivalent	*	33.7	148.7	106.9	54.1	67.5	410.9	7.5
Trade, technical level	17.6	195.1	455.3	381.2	274.3	332.5	1,656.1	30.3
Other	*	*	8.3	8.2	*	*	29.8	0.5
Without post-school qualifications(b)	420.5	411.1	572.0	466.3	439.5	850.7	3,160.2	57.8
Attended highest level of secondary school available	112.5	157.6	163.6	64.8	43.2	72.9	614.7	11.3
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	9.3	11.0	5.5	*	6.3	37.3	0.7
16 or 17 years	171.0	130.2	154.8	82.0	54.8	75.1	667.8	12.2
14 or 15 years	133.3	108.4	218.1	258.4	251.3	489.3	1,458.9	26.7
13 years or under	*	4.5	23.6	52.9	83.2	194.0	359.6	6.6
Total	308.0	252.4	407.5	398.8	392.2	764.7	2,523.6	46.2
Still at school(c)	205.4	*	..	..	..	..	205.7	3.8
Total	645.2	643.3	1,184.4	962.7	772.2	1,255.0	5,462.8	100.0
FEMALES								
With post-school qualifications	59.5	228.3	452.2	303.7	181.5	210.1	1,435.4	25.8
Degree or equivalent	*	46.1	95.3	48.5	22.3	21.9	234.2	4.2
Trade, technical level	55.7	177.4	344.2	244.0	153.4	180.6	1,155.3	20.8
Other	*	4.8	12.7	11.3	5.9	7.6	45.9	0.8
Without post-school qualifications(b)	350.2	407.8	743.8	619.1	554.6	1,250.1	3,925.6	70.5
Attended highest level of secondary school available	112.5	119.6	118.6	63.0	54.1	116.6	584.3	10.5
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	*	9.7	*	*	*	26.7	0.5
16 or 17 years	121.7	145.6	234.6	122.6	78.4	124.9	827.7	14.9
14 or 15 years	111.8	133.9	346.2	360.5	336.4	752.8	2,041.6	36.7
13 years or under	*	*	33.4	64.0	75.8	233.9	413.6	7.4
Total	237.6	288.3	623.9	551.2	493.6	1,115.1	3,309.7	59.5
Still at school(c)	204.3	*	..	..	..	..	204.3	3.7
Total	614.0	636.2	1,196.0	922.8	736.1	1,460.2	5,565.2	100.0
PERSONS								
With post-school qualifications	78.9	460.2	1,064.5	800.1	514.2	614.3	3,532.2	32.0
Degree or equivalent	*	79.8	244.0	155.4	76.4	89.4	645.1	5.8
Trade, technical level	73.3	372.5	799.5	625.2	427.6	513.2	2,811.4	25.5
Other	5.4	7.9	21.0	19.5	10.2	11.8	75.7	0.7
Without post-school qualifications	770.7	819.0	1,315.9	1,085.4	994.0	2,100.8	7,085.7	64.3
Attended highest level of secondary school available	225.0	277.2	282.2	127.8	97.3	189.5	1,199.0	10.9
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	13.6	20.7	9.7	5.9	9.8	64.0	0.6
16 or 17 years	292.7	275.7	389.4	204.6	133.2	199.9	1,495.5	13.6
14 or 15 years	245.1	242.4	564.3	618.9	587.7	1,242.1	3,500.5	31.7
13 years or under	*	9.0	57.0	116.8	159.0	427.9	773.3	7.0
Total	545.7	540.7	1,031.3	950.0	885.8	1,879.8	5,833.3	52.9
Never attended school	*	*	*	7.6	10.9	31.5	53.4	0.5
Still at school(c)	409.7	*	..	..	..	..	410.1	3.7
Total	1,259.3	1,279.5	2,380.3	1,885.5	1,508.3	2,715.1	11,028.0	100.0

(a) Excludes persons in institutions. (b) Includes persons who never attended school. (c) Aged 15 to 20 years only. See Explanatory notes, paragraph 10.



**TABLE 3. CIVILIAN POPULATION AGED 15 AND OVER(a) : EDUCATIONAL ATTAINMENT, LABOUR FORCE STATUS, STATES AND TERRITORIES, FEBRUARY 1982**  
( ' 000)

	Without post-school qualifications							
	With post-school qualifications			Attended highest secondary level	Did not attend highest level of secondary school and left at age (years)		Total (c)	Total (d)
	Degree or equivalent	Trade, technical level	Total (b)		16 or over	15 or under		
EMPLOYED								
New South Wales	183.7	772.9	968.5	262.5	353.3	633.7	1,253.3	2,242.7
Victoria	134.2	512.8	657.6	203.8	306.1	512.0	1,027.0	1,709.9
Queensland	70.9	305.1	385.1	108.4	116.6	356.2	581.8	979.9
South Australia	45.5	172.9	226.6	64.1	97.3	169.4	332.1	565.7
Western Australia	44.2	190.8	240.9	67.5	62.4	188.0	319.4	566.2
Tasmania	11.0	47.6	59.8	32.5	21.3	55.7	109.6	169.9
Northern Territory	5.7	19.2	26.3	8.8	10.7	11.0	30.9	57.7
Australian Capital Territory	22.3	33.3	57.2	19.3	12.8	14.1	46.2	105.6
Australia	517.6	2,054.8	2,622.1	767.0	980.5	1,940.0	3,700.3	6,397.5
UNEMPLOYED								
New South Wales	7.4	32.8	40.8	18.5	36.5	59.5	115.2	162.1
Victoria	•	19.3	24.7	19.4	35.5	35.0	90.1	121.7
Queensland	•	17.3	20.1	8.9	10.5	31.6	51.0	73.3
South Australia	2.7	9.0	12.3	6.3	12.9	16.7	35.9	50.8
Western Australia	2.5	9.6	12.5	8.0	7.1	16.9	32.1	45.8
Tasmania	•	3.2	3.5	4.3	4.2	5.4	14.0	18.1
Northern Territory	•	•	•	•	3.0		3.6	4.7
Australian Capital Territory	•	•	•	2.7	3.1		5.8	7.9
Australia	21.2	92.4	116.1	68.7	109.0	168.9	347.7	484.4
LABOUR FORCE								
New South Wales	191.1	805.7	1,009.3	281.0	389.8	693.3	1,368.6	2,404.8
Victoria	139.1	532.1	682.3	223.2	341.6	546.9	1,117.1	1,831.5
Queensland	73.3	322.4	405.2	117.2	127.1	387.8	632.7	1,053.2
South Australia	48.2	181.9	238.9	70.4	110.3	186.1	368.0	616.5
Western Australia	46.7	200.4	253.4	75.5	69.5	204.8	351.5	612.0
Tasmania	11.3	50.9	63.4	36.8	25.5	61.1	123.6	188.0
Northern Territory	6.2	19.7	27.2	9.5	11.6	13.0	34.5	62.4
Australian Capital Territory	22.9	34.1	58.6	22.0	14.1	15.9	52.0	113.5
Australia	538.8	2,147.2	2,738.2	835.7	1,089.5	2,108.9	4,048.0	6,881.9
NOT IN THE LABOUR FORCE								
New South Wales	45.6	244.7	294.8	128.1	170.4	764.8	1,078.8	1,483.9
Victoria	27.9	148.9	182.2	97.8	143.7	554.6	808.0	1,096.5
Queensland	10.3	116.3	131.7	52.4	63.3	380.7	499.1	666.9
South Australia	8.6	53.4	66.0	32.1	46.0	197.8	279.3	368.6
Western Australia	7.0	68.9	78.6	29.3	28.6	175.3	237.5	334.6
Tasmania	2.6	17.5	21.1	15.3	10.2	71.0	97.0	126.8
Northern Territory	•	4.9	6.4	•	•	7.4	10.4	21.1
Australian Capital Territory	3.3	9.6	13.3	7.4	6.2	13.1	27.6	47.7
Australia	106.3	664.3	794.0	363.4	470.1	2,164.8	3,037.7	4,146.1
TOTAL								
New South Wales	236.7	1,050.4	1,304.1	409.1	560.2	1,458.1	2,447.4	3,888.7
Victoria	167.0	681.0	864.5	321.1	485.3	1,101.6	1,925.2	2,928.1
Queensland	83.6	438.7	536.9	169.7	190.3	768.5	1,131.9	1,720.1
South Australia	56.8	235.3	304.8	102.5	156.3	383.9	647.2	985.1
Western Australia	53.7	269.3	332.0	104.9	98.0	380.2	589.0	946.6
Tasmania	13.9	68.4	84.5	52.1	35.8	132.1	220.6	314.8
Northern Territory	7.3	24.6	33.6	10.4	13.3	20.4	44.9	83.5
Australian Capital Territory	26.2	43.7	71.8	29.3	20.3	29.1	79.6	161.2
Australia	645.1	2,811.4	3,532.2	1,199.0	1,559.6	4,273.7	7,085.7	11,028.0

(a) Excludes persons in institutions. (b) Includes persons with other post-school qualifications. (c) Includes persons who never attended school. (d) Includes persons aged 15 to 20 years still at school.

TABLE 4. CIVILIAN POPULATION AGED 15 AND OVER WITH A DEGREE OR EQUIVALENT LEVEL QUALIFICATION: MAIN FIELD OF STUDY, AGE AND LABOUR FORCE STATUS, FEBRUARY 1982.

Main field of study	Age group (years)				In the labour force		Not in the labour force	Total	Participation rate
	15-24	25-44	45-54	55 and over	Employed	Total			
	— '000—								
MALES									
Administration etc.(a)	9.5	51.7	10.8	10.7	75.7	76.3	6.5	82.7	92.2
Law	*	14.2	*	5.1	20.2	20.5	*	23.2	88.5
Education, teaching	*	32.6	*	8.0	40.4	41.5	5.0	46.5	89.2
Medicine(b)	*	24.6	8.1	9.5	40.5	41.4	*	45.2	91.6
Science(c)	7.7	54.7	8.8	9.4	72.0	73.6	6.9	80.6	91.4
Engineering(d)	*	37.9	13.7	11.0	59.3	60.7	6.0	66.6	91.0
Architecture	*	6.7	*	*	10.9	10.9	*	11.3	96.4
Humanities(e)	*	29.8	5.1	10.2	40.2	42.7	6.7	49.3	86.5
Other	*	*	*	*	4.6	4.6	*	5.5	82.9
Total	33.7	255.7	54.1	67.5	363.7	372.1	38.9	410.9	90.5
FEMALES									
Administration etc.(a)	*	8.2	*	*	11.2	11.4	*	15.8	72.1
Law	*	*	*	*	*	*	*	5.2	*
Education, teaching	13.1	48.4	5.3	*	50.5	54.0	17.2	71.2	75.8
Medicine(b)	5.9	20.0	*	*	21.9	23.1	9.7	32.7	70.5
Science(c)	7.5	19.2	*	*	18.7	20.6	9.2	29.9	69.2
Engineering(d)	*	*	*	*	*	*	*	*	*
Architecture	*	*	*	*	*	*	*	*	*
Humanities(e)	12.2	41.3	8.1	9.8	42.7	48.1	23.4	71.5	67.2
Other	*	*	*	*	*	*	*	*	*
Total	46.2	143.7	22.3	21.9	153.9	166.7	67.5	234.2	71.2
PERSONS									
Administration etc.(a)	13.5	59.9	12.7	12.4	86.9	87.7	10.9	98.5	89.0
Law	*	16.7	*	5.1	24.2	24.8	*	28.3	87.6
Education, teaching	15.9	81.0	8.3	12.5	90.9	95.4	22.3	117.7	81.1
Medicine(b)	9.1	44.5	11.7	12.7	62.3	64.5	13.5	77.9	82.7
Science(c)	15.2	73.9	10.3	11.0	90.7	94.3	16.2	110.4	85.4
Engineering(d)	*	38.9	13.7	11.0	60.0	61.7	6.2	67.9	90.8
Architecture	*	8.2	*	*	13.2	13.2	*	14.8	89.5
Humanities(e)	16.4	71.1	13.2	20.1	82.9	90.7	30.1	120.8	75.1
Other	*	5.1	*	*	6.5	6.5	*	8.6	74.7
Total	79.9	399.4	76.4	89.4	517.6	538.8	106.3	645.1	83.5

(a) Administration, business studies, commerce, economics, accounting, secretarial studies, etc. (b) Includes dentistry, pharmacy, nursing. (c) Includes mathematics, computing, veterinary and agricultural science, statistics, computer programming, chemistry, physics, etc. (d) Includes telecommunication, transport, surveying. (e) Includes languages, history, politics, philosophy, psychology, social welfare, religion, geography, art, music, etc.

TABLE 5. CIVILIAN POPULATION AGED 15 AND OVER WITH A TRADE OR TECHNICAL LEVEL QUALIFICATION: MAIN FIELD OF STUDY, AGE AND LABOUR FORCE STATUS, FEBRUARY 1982

Main field of study	Age group (years)				In the labour force		Not in the labour force	Total	Participation rate per cent
	15-24	25-44	45-54	55 and over	Employed	Total			
	— '000—								
MALES									
Trades—									
Metal	40.2	144.2	45.5	55.4	242.6	248.3	37.1	285.3	87.0
Electrical	20.5	73.6	22.0	22.5	119.9	123.3	15.3	138.6	89.0
Building	36.9	123.1	44.6	51.8	208.9	219.2	37.2	256.4	85.5
Automotive	29.9	89.8	25.7	24.6	149.4	153.5	16.5	169.9	90.3
Other	38.3	121.2	40.5	54.9	211.4	219.1	35.9	255.0	85.9
Total	165.8	551.9	178.3	209.2	932.3	963.4	141.8	1,105.2	87.2
Secretarial, etc.(a)	*	5.5	*	*	8.6	8.8	*	10.6	82.7
Health, para-medical(b)	*	18.7	5.4	7.3	29.1	29.8	5.6	35.4	84.1
Engineering(c)	14.8	77.5	31.0	34.9	136.1	139.3	18.9	158.2	88.0
Teaching	*	25.2	5.9	7.1	35.8	36.5	5.0	41.5	88.0
Administration, law(d)	7.2	83.7	27.1	43.0	136.7	139.1	21.9	161.0	86.4
Science, humanities(e)	9.5	32.9	10.1	9.6	53.3	55.5	6.6	62.1	89.3
Other	6.8	41.2	15.5	18.5	67.4	68.5	13.6	82.1	83.4
Total	212.8	836.5	274.3	332.5	1,399.2	1,440.9	215.3	1,656.1	87.0
FEMALES									
Trades	14.5	46.1	17.0	19.0	47.6	52.2	44.3	96.5	54.1
Secretarial, etc.(a)	121.4	199.9	44.9	49.8	239.2	261.6	154.3	415.9	62.9
Health, para-medical(b)	43.9	162.1	41.5	52.0	173.6	182.6	116.8	299.4	61.0
Engineering(c)	*	*	*	*	4.8	5.1	*	7.3	69.7
Teaching	24.4	98.6	20.2	30.3	99.7	105.7	67.8	173.6	60.9
Administration, law(d)	6.7	26.2	11.3	5.6	34.4	37.2	12.6	49.8	74.7
Science, humanities(e)	9.0	27.1	9.4	14.2	28.6	31.4	28.3	59.7	52.5
Other	11.1	25.1	7.6	9.1	27.6	30.5	22.5	53.0	57.5
Total	233.1	588.2	153.4	180.6	655.5	706.3	449.0	1,155.3	61.1
PERSONS									
Trades—									
Metal	40.2	144.8	45.8	56.0	243.1	248.7	38.2	286.9	86.7
Electrical	20.8	73.9	22.0	23.1	119.9	123.9	15.9	139.7	88.7
Building	37.1	123.6	44.8	52.0	209.6	219.8	37.6	257.4	85.4
Automotive	30.2	90.0	25.7	25.2	150.0	154.1	17.0	171.1	90.0
Other	52.0	165.6	57.0	71.9	257.3	269.1	77.4	346.5	77.7
Total	180.3	598.0	195.3	228.2	979.8	1,015.5	186.1	1,201.7	84.5
Secretarial, etc.(a)	122.6	205.4	45.8	52.8	247.8	270.4	156.2	426.6	63.4
Health, para-medical(b)	48.1	180.8	46.8	59.2	202.7	212.4	122.4	334.9	63.4
Engineering(c)	16.9	80.6	32.6	35.5	140.9	144.4	21.1	165.5	87.2
Teaching	27.7	123.9	26.1	37.4	135.5	142.2	72.8	215.0	66.1
Administration, law(d)	13.9	109.8	38.5	48.6	171.2	176.3	34.5	210.8	83.6
Science, humanities(e)	18.6	59.9	19.5	23.8	81.9	86.9	35.0	121.8	71.3
Other	17.9	66.4	23.1	27.7	95.0	99.0	36.1	135.1	73.3
Total	445.9	1,424.7	427.6	513.2	2,054.8	2,147.2	664.3	2,811.4	76.4

(a) Typing, secretarial studies, data processing. (b) Includes nursing, health therapy, etc. (c) Includes telecommunication, architecture, surveying, drafting, town planning etc. (d) Includes commerce, business administration, economics, book-keeping, etc. (e) Includes computing, veterinary/agricultural science, chemistry, social studies, social welfare, languages, arts, crafts, music, etc.

**TABLE 6. PERSONS IN THE LABOUR FORCE : EDUCATIONAL ATTAINMENT, EMPLOYMENT STATUS AND FULL-TIME OR PART-TIME STATUS, FEBRUARY 1982**  
( ' 000)

Educational attainment	Employed			Unemployed			Total labour force		
	Full-time	Part-time	Total	Looking for full-time work	Looking for part-time work	Total	Full-time	Part-time	Total
<b>MALES</b>									
With post-school qualifications	1,726.3	62.8	1,789.1	48.1	*	50.6	1,774.5	65.3	1,839.7
Degree or equivalent	344.4	19.3	363.7	7.7	*	8.4	352.1	19.9	372.1
Trade, technical level	1,356.9	42.3	1,399.2	39.9	*	41.6	1,396.8	44.1	1,440.9
Other	25.0	*	26.2	*	*	*	25.5	*	26.8
Without post-school qualifications	2,156.7	103.3	2,259.9	183.1	9.2	192.3	2,339.7	112.5	2,452.2
Attended highest level of secondary school available	455.5	27.8	483.3	30.7	4.5	35.2	486.2	32.3	518.5
Did not attend highest level of secondary school available and left at age—									
18 years or over	26.3	*	27.2	*	*	*	29.4	*	30.3
16 or 17 years	523.9	19.4	543.3	56.6	*	58.8	580.6	21.5	602.1
14 or 15 years	961.0	43.8	1,004.8	77.2	*	78.8	1,038.2	45.4	1,083.6
13 years or under	182.3	11.0	193.3	14.8	*	15.8	197.1	12.0	209.1
Total	1,693.5	75.1	1,768.6	151.7	4.7	156.5	1,845.2	79.8	1,925.0
Never attended school	7.7	*	8.1	*	*	*	8.3	*	8.7
Still at school	*	30.4	33.9	*	5.0	8.9	7.3	35.4	42.7
Total	3,886.4	196.5	4,082.9	235.1	16.7	251.7	4,121.5	213.2	4,334.7
<b>FEMALES</b>									
With post-school qualifications	579.0	254.0	832.9	48.4	17.1	65.5	627.4	271.1	898.5
Degree or equivalent	116.7	37.2	153.9	10.3	*	12.8	127.0	39.7	166.7
Trade, technical level	449.1	206.5	655.5	36.5	14.2	50.8	485.6	220.7	706.3
Other	13.2	10.3	23.5	*	*	*	14.8	10.7	25.5
Without post-school qualifications	938.3	502.1	1,440.4	118.1	37.3	155.4	1,056.4	539.4	1,595.7
Attended highest level of secondary school available	197.6	86.0	283.7	26.0	7.5	33.6	223.7	93.6	317.2
Did not attend highest level of secondary school available and left at age—									
18 years or over	10.3	*	13.2	*	*	*	12.0	*	15.6
16 or 17 years	277.4	119.3	396.7	37.2	7.6	44.8	314.6	126.9	441.5
14 or 15 years	385.5	263.9	649.4	47.0	18.5	65.4	432.5	282.4	714.9
13 years or under	64.0	28.5	92.5	5.7	*	8.9	69.7	31.7	101.4
Total	737.2	414.7	1,151.9	91.6	29.8	121.4	828.8	444.5	1,273.3
Never attended school	*	*	4.8	*	*	*	*	*	5.2
Still at school	*	39.8	41.3	*	8.6	11.8	4.6	48.4	53.0
Total	1,518.8	795.8	2,314.6	169.6	63.1	232.7	1,688.4	858.9	2,547.3
<b>PERSONS</b>									
With post-school qualifications	2,305.3	316.8	2,622.1	96.6	19.5	116.1	2,401.9	336.3	2,738.2
Degree or equivalent	461.1	56.4	517.6	18.0	*	21.2	479.1	59.6	538.8
Trade, technical level	1,806.0	248.8	2,054.8	76.4	16.0	92.4	1,882.4	264.7	2,147.2
Other	38.2	11.6	49.7	*	*	*	40.3	11.9	52.3
Without post-school qualifications	3,095.0	605.3	3,700.3	301.2	46.5	347.7	3,396.1	651.9	4,048.0
Attended highest level of secondary school available	653.1	113.8	767.0	56.7	12.0	68.7	709.8	125.8	835.7
Did not attend highest level of secondary school available and left at age—									
18 years or over	36.6	*	40.4	4.8	*	5.4	41.4	4.5	45.8
16 or 17 years	801.3	138.8	940.1	93.9	9.7	103.5	895.2	148.4	1,043.6
14 or 15 years	1,346.5	307.7	1,654.2	124.2	20.1	144.3	1,470.7	327.8	1,798.5
13 years or under	246.3	39.5	285.8	20.5	*	24.6	266.8	43.6	310.4
Total	2,430.7	489.8	2,920.5	243.4	34.5	277.9	2,674.1	524.3	3,198.4
Never attended school	11.2	*	12.9	*	*	*	12.2	*	14.0
Still at school	4.9	70.2	75.1	7.0	13.6	20.6	11.9	83.8	95.7
Total	5,405.2	992.3	6,397.5	404.7	79.7	484.4	5,809.9	1,072.0	6,881.9

TABLE 7. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND INDUSTRY, FEBRUARY 1982  
( ' 000)

Industry division	With post-school qualifications			Without post-school qualifications				Total (c)
	Degree or equivalent	Trade, technical level	Total (a)	Attended highest secondary level	Did not attend highest level of secondary school and left at age (years)		Total (b)	
					16 or over	15 or under		
MALES								
Agriculture, forestry, fishing and hunting	7.4	51.0	60.8	35.1	51.1	156.9	244.3	306.8
Mining	8.7	37.4	46.6	7.2	7.2	28.6	43.0	89.6
Manufacturing	44.8	346.8	396.1	89.1	138.7	295.9	525.8	926.4
Electricity, gas and water	7.8	55.4	63.3	13.3	16.4	32.5	62.2	125.5
Construction	8.2	213.5	223.0	30.7	59.2	127.6	218.9	442.6
Wholesale and retail trade	31.9	242.3	279.0	95.4	124.1	203.8	424.2	725.5
Transport and storage	7.4	90.4	100.0	31.7	47.5	123.1	202.9	302.9
Communication	*	37.4	40.8	16.0	13.0	34.1	63.0	103.8
Finance, property and business services	64.9	87.5	154.6	68.5	41.4	45.6	155.8	310.9
Public administration and defence	31.7	59.7	94.5	33.4	19.2	47.6	100.3	195.1
Community services	136.1	125.3	264.0	29.9	26.4	52.3	109.3	373.7
Recreation, personal and other services	12.3	52.6	66.4	33.0	26.4	50.2	110.3	180.1
Total	363.7	1,399.2	1,789.1	483.3	570.5	1,198.1	2,259.9	4,082.9
FEMALES								
Agriculture, forestry, fishing and hunting	*	23.2	26.8	12.0	16.9	40.5	70.3	99.1
Mining	*	*	*	*	*	*	5.1	8.2
Manufacturing	5.7	62.5	70.6	32.1	58.8	152.0	245.4	316.7
Electricity, gas and water	*	*	*	*	*	*	8.8	12.9
Construction	*	14.7	16.2	*	8.8	21.0	33.1	49.3
Wholesale and retail trade	12.7	102.8	122.7	63.2	120.7	206.7	390.8	547.1
Transport and storage	*	12.7	15.3	6.2	13.2	15.2	34.6	49.9
Communication	*	*	5.4	6.4	7.7	13.4	27.8	33.1
Finance, property and business services	8.8	67.1	78.0	48.7	64.0	62.7	175.4	254.2
Public administration and defence	8.0	28.0	37.2	19.7	16.5	22.2	58.4	95.9
Community services	104.2	280.7	389.7	59.7	59.0	118.2	237.3	627.7
Recreation, personal and other services	7.8	53.6	64.0	29.3	38.3	85.2	153.4	220.4
Total	153.9	655.5	833.0	283.7	410.0	741.9	1,440.4	2,314.6
PERSONS								
Agriculture, forestry, fishing and hunting	9.6	74.2	87.6	47.2	68.1	197.3	314.6	405.9
Mining	8.9	40.0	49.7	8.4	9.8	30.0	48.1	97.8
Manufacturing	50.4	409.3	466.7	121.2	197.5	447.9	771.2	1,243.2
Electricity, gas and water	8.3	58.8	67.5	15.1	20.0	35.8	71.0	138.4
Construction	9.0	228.2	239.2	34.0	68.0	148.7	252.0	491.8
Wholesale and retail trade	44.6	345.1	401.7	158.7	244.8	410.4	815.0	1,272.6
Transport and storage	9.4	103.1	115.3	37.8	60.7	138.3	237.6	352.8
Communication	*	41.7	46.1	22.4	20.7	47.5	90.8	136.9
Finance, property and business services	73.7	154.6	232.6	117.2	105.3	108.3	331.2	565.1
Public administration and defence	39.8	87.7	131.7	53.1	35.6	69.8	158.7	291.0
Community services	240.3	406.0	653.7	89.6	85.4	170.5	346.6	1,001.4
Recreation, personal and other services	20.1	106.2	130.4	62.3	64.6	135.4	263.8	400.5
Total	517.6	2,054.8	2,622.1	766.9	980.5	1,940.0	3,700.3	6,397.5

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.

**TABLE 8. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND OCCUPATION, FEBRUARY 1982**  
( ' 000)

Occupation group	With post-school qualifications			Attended highest secondary level	Without post-school qualifications		Total (b)	Total (c)
	Degree or equivalent	Trade, technical level	Total (a)		Did not attend highest level of secondary school and left at age (years)			
					16 or over	15 or under		
MALES								
Professional, technical, etc.	260.6	173.2	434.4	40.8	18.0	16.9	75.8	511.0
Administrative, executive and managerial	43.1	136.0	180.4	44.4	46.9	76.4	168.1	348.5
Clerical	25.6	64.1	95.5	115.1	59.9	56.3	231.3	328.0
Sales	9.3	80.6	92.2	44.1	47.1	78.5	169.9	274.1
Farmers, fishermen, timber-getters, etc.	7.2	58.5	68.8	41.4	59.1	178.2	280.7	352.3
Miners, quarrymen, etc.	*	13.2	14.2	*	*	19.9	26.8	41.0
Transport and communication	*	67.6	72.4	28.6	43.7	146.7	219.2	292.0
Tradesmen, production-process workers and labourers, n.e.c.	11.6	738.7	757.8	132.8	259.9	546.1	942.6	1,714.2
Service, sport and recreation	*	67.3	73.6	33.4	31.8	79.0	145.6	222.0
Total	363.7	1,399.2	1,789.1	483.3	570.5	1,198.1	2,259.9	4,082.9
FEMALES								
Professional, technical, etc.	116.6	219.1	336.3	32.8	16.2	20.9	69.9	406.2
Administrative, executive and managerial	*	18.9	22.6	8.4	11.1	19.6	39.1	61.7
Clerical	19.4	234.2	264.2	132.4	183.0	194.6	510.3	786.0
Sales	4.5	44.3	52.8	37.7	65.3	122.9	225.9	300.3
Farmers, etc.	*	22.2	25.0	10.8	16.9	41.2	69.7	97.3
Transport and communication	*	9.0	9.6	*	11.8	16.8	32.9	43.2
Tradeswomen, production-process workers and labourers, n.e.c.	*	26.0	30.7	19.9	46.2	144.7	213.1	244.7
Service, sport and recreation	5.9	81.7	91.6	37.3	59.5	181.1	279.5	375.0
Total(d)	153.9	655.5	833.0	283.7	410.0	741.9	1,440.4	2,314.6
PERSONS								
Professional, technical, etc.	377.2	392.4	770.7	73.6	34.2	37.8	145.7	917.2
Administrative, executive and managerial	46.3	154.9	203.0	52.8	58.0	96.0	207.2	410.2
Clerical	45.0	298.3	359.7	247.5	243.0	250.9	741.6	1,114.0
Sales	13.8	124.9	144.9	81.8	112.3	201.5	395.7	574.3
Farmers, fishermen, timber-getters, etc.	9.2	80.7	93.8	52.2	76.0	219.4	350.4	449.6
Miners, quarrymen, etc.	*	13.4	14.3	*	*	19.9	26.8	41.1
Transport and communication	*	76.6	82.0	32.9	55.5	163.6	252.1	335.2
Tradesmen, production-process workers and labourers, n.e.c.	13.5	764.7	788.5	152.8	306.2	690.8	1,155.7	1,958.9
Service, sport and recreation	9.2	149.0	165.2	70.7	91.4	260.1	425.1	597.0
Total	517.6	2,054.8	2,622.1	766.9	980.5	1,940.0	3,700.3	6,397.5

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school. (d) Includes miners, etc.

TABLE 9. EMPLOYED PERSONS(a) : EDUCATIONAL ATTAINMENT, INDUSTRY AND OCCUPATION, FEBRUARY 1982  
( ' 000)

Occupation group	Industry division											Total
	Agriculture, forestry, fishing and hunting	Mining	Manu- facturing	Con- struction	Wholesale and retail trade	Transport and storage	Finance property and business services	Comm- unity services	Public admin- istration and defence	Recrea- tion, personal and other services	Other indus- tries	
WITH POST-SCHOOL QUALIFICATIONS												
Professional, technical, etc.	*	10.1	60.5	12.6	30.5	8.0	88.9	482.8	39.9	15.8	20.0	770.7
Administrative, executive and managerial	*	*	43.9	11.8	69.4	7.5	19.4	9.5	19.0	16.0	*	203.0
Clerical	*	*	48.3	15.3	56.3	19.3	78.5	58.7	48.7	15.2	13.2	359.7
Sales	*	*	14.6	*	95.4	*	25.1	*	*	*	*	144.9
Farmers, fishermen, timber-getters, etc.	77.4	*	*	*	*	*	*	*	*	4.6	*	93.8
Miners, quarrymen and related workers	*	13.3	*	*	*	*	*	*	*	*	*	14.3
Transport and communication	*	*	7.6	*	8.4	45.8	*	4.8	*	*	7.3	82.0
Tradesmen, production-process workers and labourers, n.e.c.	*	18.6	287.0	192.6	134.3	30.4	10.8	21.8	14.9	7.4	68.5	788.5
Service, sport and recreation	*	*	*	*	4.8	*	8.8	72.7	*	67.3	*	165.2
Total	87.6	49.7	466.7	239.2	401.6	115.3	232.6	653.7	131.7	130.4	113.6	2,622.1
WITHOUT POST-SCHOOL QUALIFICATIONS BUT ATTENDED HIGHEST LEVEL OF SECONDARY SCHOOL AVAILABLE												
Professional, technical, etc.	*	*	9.7	*	*	*	11.8	29.0	4.7	6.9	*	73.6
Administrative, executive and managerial	*	*	6.7	*	24.2	*	8.4	*	*	6.9	*	52.8
Clerical	*	*	22.3	4.5	30.9	12.0	82.5	29.7	39.5	8.7	14.2	247.5
Sales	*	*	8.7	*	63.9	*	5.5	*	*	*	*	81.8
Farmers, fishermen, timber-getters, etc.	42.8	*	*	*	*	*	*	*	*	*	*	52.2
Transport and communication	*	*	*	*	*	14.3	*	*	*	*	8.0	32.9
Tradesmen, production-process workers and labourers, n.e.c.	*	*	68.3	25.2	27.8	7.2	*	*	*	*	9.4	152.8
Service, sport and recreation	*	*	*	*	4.6	*	4.9	22.9	*	31.5	*	70.7
Total(b)	47.2	8.4	121.2	34.0	158.7	37.8	117.2	89.6	53.1	62.3	37.5	766.9
WITHOUT POST-SCHOOL QUALIFICATIONS AND DID NOT ATTEND HIGHEST LEVEL OF SECONDARY SCHOOL AVAILABLE												
Professional, technical, etc.	*	*	11.7	*	*	*	9.4	28.8	*	9.0	*	72.0
Administrative, executive and managerial	*	*	19.2	4.6	81.0	7.4	16.0	*	*	16.3	*	154.0
Clerical	*	*	60.7	25.7	100.4	35.4	121.2	56.8	41.6	21.1	24.8	493.9
Sales	*	*	15.4	*	272.1	*	15.7	*	*	7.0	*	313.8
Farmers, fishermen, timber-getters, etc.	253.6	*	*	5.1	6.0	*	*	4.5	5.9	13.8	*	295.4
Miners, quarrymen and related workers	*	21.2	*	*	*	*	*	*	*	*	*	23.9
Transport and communication	*	*	22.8	6.3	25.4	101.3	*	7.6	9.6	*	34.7	219.0
Tradesmen, production-process workers and labourers, n.e.c.	4.6	10.0	496.0	168.4	150.5	44.1	9.7	20.0	29.3	9.2	55.2	996.9
Service, sport and recreation	*	*	15.0	*	16.5	7.3	37.0	133.8	12.8	120.7	5.3	351.5
Total	265.4	39.7	645.4	216.6	655.2	199.1	213.6	255.9	105.5	200.0	124.1	2,920.5

(a) Excludes persons aged 15 to 20 years who are still attending school. (b) Includes miners, etc.

TABLE 10. EMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1982

	Age group (years)						Total	per cent
	15-19	20-24	25-34	35-44	45-54	55 and over		
Educational attainment	— '000—							
MALES								
With post-school qualifications	17.1	210.8	583.9	474.6	308.8	193.9	1,789.1	43.8
Degree or equivalent	*	29.3	140.5	103.3	52.2	38.3	363.7	8.9
Trade, technical level	15.8	178.7	435.3	363.4	252.8	153.2	1,399.2	34.3
Other	*	*	8.2	7.9	*	*	26.2	0.6
Without post-school qualifications(a)	318.4	337.7	504.6	422.3	373.1	303.8	2,259.9	55.4
Attended highest level of secondary school available	76.2	127.8	152.2	60.9	38.4	27.8	483.3	11.8
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	8.1	8.9	4.5	*	*	27.2	0.7
16 or 17 years	139.1	109.3	138.4	75.6	47.5	33.4	543.3	13.3
14 or 15 years	101.7	89.5	187.7	234.5	216.3	175.1	1,004.8	24.6
13 years or under	*	*	16.8	44.8	66.4	61.7	193.3	4.7
Total	242.1	210.0	351.8	359.4	332.7	272.6	1,768.6	43.3
Still at school	33.5	*	..	..	..	..	33.9	0.8
Total	369.0	548.9	1,088.6	896.9	681.9	497.7	4,082.9	100.0
FEMALES								
With post-school qualifications	44.2	173.5	259.1	193.8	116.6	45.7	833.0	36.0
Degree or equivalent	*	32.8	65.0	32.7	16.1	7.4	153.9	6.7
Trade, technical level	41.3	136.8	188.1	154.7	97.3	37.3	655.5	28.3
Other	*	*	6.0	6.5	*	*	23.5	1.0
Without post-school qualifications(a)	220.2	235.4	312.4	321.8	236.1	114.4	1,440.4	62.2
Attended highest level of secondary school available	66.9	79.3	60.2	36.4	25.5	15.3	283.7	12.3
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	*	4.7	*	*	*	13.2	0.6
16 or 17 years	82.8	86.6	100.3	71.1	35.7	20.3	396.7	17.1
14 or 15 years	68.4	64.7	134.6	177.4	140.7	63.6	649.4	28.1
13 years or under	*	*	12.4	33.4	29.8	14.3	92.5	4.0
Total	153.3	156.1	252.1	284.3	208.0	98.2	1,151.9	49.8
Still at school	41.3	*	..	..	..	..	41.3	1.8
Total	305.7	408.9	571.5	515.6	352.7	160.1	2,314.6	100.0
PERSONS								
With post-school qualifications	61.3	384.3	843.1	668.5	425.4	239.6	2,622.1	41.0
Degree or equivalent	*	62.1	205.5	136.0	68.3	45.7	517.6	8.1
Trade, technical level	57.1	315.5	623.4	518.1	350.1	190.5	2,054.8	32.1
Other	*	6.6	14.1	14.4	7.1	*	49.7	0.8
Without post-school qualifications	538.6	573.1	817.0	744.1	609.2	418.2	3,700.3	57.8
Attended highest level of secondary school available	143.1	207.1	212.4	97.3	63.9	43.1	766.9	12.0
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	11.1	13.6	6.9	*	*	40.4	0.6
16 or 17 years	221.9	195.9	238.6	146.7	83.2	53.7	940.1	14.7
14 or 15 years	170.0	154.3	322.3	411.9	357.0	238.7	1,654.2	25.9
13 years or under	*	4.7	29.2	78.3	96.2	76.0	285.8	4.5
Total	395.5	366.0	603.8	643.7	540.7	370.7	2,920.5	45.6
Never attended school	*	*	*	*	4.7	*	12.9	0.2
Still at school	74.8	*	..	..	..	..	75.1	1.2
Total	674.7	957.8	1,660.1	1,412.5	1,034.7	657.8	6,397.5	100.0

(a) Includes persons who never attended school.



TABLE 11. UNEMPLOYED PERSONS : EDUCATIONAL ATTAINMENT, AGE, FEBRUARY 1982

	Age group (years)						
	15-19	20-24	25-34	35-44	45-54	55 and over	Total
Educational attainment	— '000—						
MALES							
With post-school qualifications(a)	*	13.3	15.3	9.2	6.0	5.0	50.6
Degree or equivalent	*	5.7		*	*	*	8.4
Trade, technical level	*	11.5	11.4	7.6	5.0	4.6	41.6
Without post-school qualifications(b)	62.6	46.1	38.9	19.8	13.9	11.0	192.3
Attended highest level of secondary school available	14.1	12.0	5.4	*	*	*	35.2
Did not attend highest level of secondary school available	48.5	33.8	33.5	18.3	12.7	9.8	156.5
Total(c)	73.2	59.4	54.2	29.0	19.9	16.0	251.7
FEMALES							
With post-school qualifications(a)	11.6	17.7	21.3	8.4	4.9	*	65.5
Degree or equivalent	*	6.5	4.9		*	*	12.8
Trade, technical level	10.8	10.9	16.7	7.4	*	*	50.8
Without post-school qualifications(b)	61.7	29.1	31.3	19.4	11.5	*	155.4
Attended highest level of secondary school available	17.4	7.6	4.6	*	*	*	33.6
Did not attend highest level of secondary school available	44.3	21.5	26.7	17.0	9.8	*	121.4
Total(c)	85.1	46.8	52.6	27.8	16.4	*	232.7
PERSONS							
With post-school qualifications(a)	13.4	31.0	36.7	17.5	10.9	6.6	116.1
Degree or equivalent	*	8.2	7.8	*	*	*	21.2
Trade, technical level	12.4	22.4	28.1	15.0	8.5	6.0	92.4
Without post-school qualifications(b)	124.2	75.2	70.2	39.2	25.4	13.4	347.7
Attended highest level of secondary school available	31.5	19.6	10.0	*	*	*	68.7
Did not attend highest level of secondary school available	92.8	55.3	60.1	35.3	22.5	11.9	277.9
Total(c)	158.3	106.2	106.8	56.8	36.3	19.9	484.4

(a) Includes a small number of persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.

**TABLE 12. UNEMPLOYED PERSONS : EDUCATIONAL ATTAINMENT AND DURATION OF CURRENT PERIOD OF UNEMPLOYMENT, FEBRUARY 1982**

	Duration of current period of unemployment (weeks)						Total	Average (mean) duration	Median duration
	1 and under 4	4 and under 8	8 and under 13	13 and under 26	26 and under 52	52 and over			
<i>Educational attainment</i>	— ' 000—						— weeks—		
MALES									
With post-school qualifications(a)	10.8	9.4	8.4	6.3	5.0	10.7	50.6	29.0	11.0
Degree or equivalent		5.7		*	*	*	8.4	20.6	8.1
Trade, technical level	8.2	7.7	6.4	5.4	*	9.7	41.6	31.0	11.8
Without post-school qualifications(b)	36.3	32.9	26.7	31.3	21.1	44.0	192.3	34.9	13.1
Attended highest level of secondary school available	9.1	6.8	*	5.7	*	5.9	35.2	22.3	10.0
Did not attend highest level of secondary school available	27.2	26.1	22.3	25.6	17.5	37.8	156.5	37.5	14.4
<i>Total(c)</i>	49.8	44.7	37.2	38.6	26.5	55.0	251.7	32.9	12.2
FEMALES									
With post-school qualifications(a)	19.2	12.1	12.0	8.3	6.2	7.7	65.5	19.4	8.6
Degree or equivalent		6.0		5.0	*	*	12.8	12.8	8.6
Trade, technical level	16.0	8.8	8.2	6.6	4.9	6.3	50.8	20.4	8.4
Without post-school qualifications(b)	41.6	24.5	24.3	18.4	18.0	28.6	155.4	29.2	10.4
Attended highest level of secondary school available	10.0	5.7	7.3	4.5		6.1	33.6	20.1	8.7
Did not attend highest level of secondary school available	31.5	18.7	17.0	13.9	15.6	24.7	121.4	31.8	11.1
<i>Total(c)</i>	65.0	38.9	39.1	27.8	24.7	37.2	232.7	25.6	9.6
PERSONS									
With post-school qualifications(a)	30.0	21.5	20.3	14.7	11.2	18.5	116.1	23.6	9.6
Degree or equivalent	5.5	4.7	4.8	*	*	*	21.2	15.9	8.5
Trade, technical level	24.2	16.5	14.6	12.0	9.1	16.0	92.4	25.2	9.9
Without post-school qualifications(b)	77.9	57.4	51.0	49.7	39.1	72.6	347.7	32.4	11.8
Attended highest level of secondary school available	19.1	12.6	11.3	10.2	6.0	9.6	68.7	21.2	9.2
Did not attend highest level of secondary school available	58.7	44.8	39.3	39.5	33.1	62.5	277.9	35.0	12.5
Still at school	6.9	4.7	4.9	*	*	*	20.6	11.1	6.9
<b>Total</b>	<b>114.8</b>	<b>83.5</b>	<b>76.2</b>	<b>66.4</b>	<b>51.3</b>	<b>92.2</b>	<b>484.4</b>	<b>29.4</b>	<b>10.9</b>

(a) Includes a small number of persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.

TABLE 13. PERSONS NOT IN THE LABOUR FORCE : EDUCATIONAL ATTAINMENT AND AGE, FEBRUARY 1982

	Age group (years)						Total	
	15-19	20-24	25-34	35-44	45-54	55 and over		
Educational attainment	— '000—						per cent	
MALES								
With post-school qualifications	*	7.8	13.0	12.6	17.9	205.4	257.1	22.8
Degree or equivalent	*	*	*	*	*	28.8	38.9	3.4
Trade, technical level	*	4.9	8.7	10.3	16.5	174.7	215.3	19.1
Other	*	*	*	*	*	*	*	*
Without post-school qualifications(a)	39.5	27.2	28.5	24.2	52.5	535.9	707.9	62.8
Attended highest level of secondary school available	22.1	17.9	6.0	*	*	43.9	96.2	8.5
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	*	*	*	*	*	7.0	0.6
16 or 17 years	7.1	*	4.9	*	5.1	41.2	65.7	5.8
14 or 15 years	8.9	*	12.4	12.3	28.1	309.6	375.2	33.3
13 years or under	*	*	*	5.2	13.4	127.8	150.6	13.3
Total	17.4	8.7	22.2	21.1	46.8	482.3	598.6	53.1
Still at school	163.0	*	..	..	..	..	163.0	14.5
Total	203.0	35.0	41.6	36.8	70.3	741.3	1,128.1	100.0
FEMALES								
With post-school qualifications	*	37.1	171.7	101.5	60.0	162.8	536.9	17.8
Degree or equivalent	*	6.9	26.4	14.8	5.1	14.3	67.5	2.2
Trade, technical level	*	29.7	139.3	81.9	52.6	141.9	449.0	14.9
Other	*	*	6.0	4.8	*	6.6	20.4	0.7
Without post-school qualifications(a)	68.3	143.4	400.1	277.8	306.9	1,133.3	2,329.8	77.2
Attended highest level of secondary school available	28.3	32.7	53.8	24.2	27.3	101.0	267.1	8.9
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	*	*	*	*	*	11.1	0.4
16 or 17 years	18.9	47.4	125.3	48.6	41.9	104.2	386.2	12.8
14 or 15 years	20.1	60.5	196.4	172.6	188.8	688.4	1,326.8	44.0
13 years or under	*	*	19.2	26.8	44.0	218.8	312.3	10.3
Total	40.0	110.7	345.2	249.8	275.8	1,014.8	2,036.4	67.5
Still at school	151.3	*	..	..	..	..	151.3	5.0
Total	223.3	180.5	571.8	379.4	366.9	1,296.1	3,018.0	100.0
PERSONS								
With post-school qualifications	*	44.9	184.8	114.1	77.9	368.1	794.0	19.2
Degree or equivalent	*	9.5	30.6	16.8	6.2	43.1	106.3	2.6
Trade, technical level	*	34.6	148.0	92.2	69.0	316.6	664.3	16.0
Other	*	*	6.1	5.1	*	8.4	23.4	0.6
Without post-school qualifications	107.8	170.6	428.7	302.1	359.4	1,669.2	3,037.7	73.3
Attended highest level of secondary school available	50.4	50.5	59.7	26.6	31.2	144.9	363.4	8.8
Did not attend highest level of secondary school available and left at age—								
18 years or over	*	*	5.8	*	*	7.3	18.2	0.4
16 or 17 years	26.0	51.8	130.2	51.7	46.9	145.3	451.9	10.9
14 or 15 years	29.0	64.5	208.8	184.9	216.9	997.9	1,702.0	41.1
13 years or under	*	*	22.7	32.1	57.4	346.6	462.8	11.2
Total	57.4	119.4	367.4	271.0	322.6	1,497.2	2,634.9	63.6
Never attended school	*	*	*	4.5	5.5	27.2	39.4	1.0
Still at school	314.3	*	..	..	..	..	314.3	7.6
Total	426.3	215.5	613.4	416.2	437.3	2,037.4	4,146.1	100.0

(a) Includes persons who never attended school.

**TABLE 14. PERSONS NOT IN THE LABOUR FORCE : EDUCATIONAL ATTAINMENT, WHETHER IN LABOUR FORCE IN LAST 12 MONTHS AND MAJOR ACTIVITY WHILE OUT OF THE LABOUR FORCE, FEBRUARY 1982**  
(000)

Major activity when out of the labour force	With post-school qualifications			Without post-school qualifications				
	Degree or equivalent	Trade, technical level	Total(a)	Attended highest secondary level	Did not attend highest level of secondary school and left at age (years)		Total(b)	Total(c)
					16 or over	15 or under		
IN THE LABOUR FORCE IN THE LAST 12 MONTHS								
Kept house	13.5	85.8	103.7	24.0	49.2	119.9	193.3	297.1
Attended an educational institution	7.3	*	12.5	30.9	6.7	*	40.6	109.0
Ill or injured	*	6.2	7.2	*	*	13.5	17.7	25.0
Retired, voluntarily inactive, etc.	6.9	33.9	40.8	11.0	10.4	43.9	65.9	107.1
Permanently unable to work	*	*	*	*	*	*	*	*
Other	*	*	*	*	*	*	5.2	7.8
Not asked(d)	6.0	27.5	34.3	11.9	17.7	41.7	72.1	110.7
Total	34.6	159.6	200.7	80.0	89.6	224.7	396.0	657.7
NOT IN THE LABOUR FORCE IN THE LAST 12 MONTHS								
Kept house	32.4	301.7	348.2	177.2	291.1	1,297.2	1,784.6	2,133.0
Attended an educational institution	7.9	5.8	13.7	42.8	9.3	6.6	59.3	325.5
Ill or injured	*	15.0	16.5	*	6.9	53.8	67.7	84.3
Retired, voluntarily inactive, etc.	28.5	172.6	203.8	54.4	64.6	532.0	662.2	866.1
Permanently unable to work	*	8.8	9.4	*	4.5	47.5	58.4	68.3
Other	*	*	*	*	*	*	9.5	11.2
Total	71.7	504.7	593.3	283.4	380.5	1,940.2	2,641.7	3,488.4
TOTAL								
Kept house	45.9	387.5	451.9	201.2	340.3	1,417.1	1,977.9	2,430.1
Attended an educational institution	15.3	10.1	26.2	73.7	16.0	9.6	99.9	434.6
Ill or injured	*	21.1	23.7	4.6	10.3	67.2	85.5	109.3
Retired, voluntarily inactive, etc.	35.4	206.6	244.7	65.4	75.0	575.9	728.1	973.2
Permanently unable to work	*	8.8	9.4	*	4.5	48.3	59.5	69.4
Other	*	*	*	*	6.3	5.0	14.7	18.9
Not asked (d)	6.0	27.5	34.3	11.9	17.7	41.7	72.1	110.7
Total	106.3	664.3	794.0	363.4	470.1	2,164.8	3,037.7	4,146.1

(a) Includes persons with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.  
(d) Persons who had had their current job for a year or longer but had only worked for part of the period were not asked their activity when not working.

TABLE 15. SUMMARY OF SURVEY RESULTS, 1979 TO 1982  
( ' 000)

Labour force status and year of survey	With post-school qualifications			Attended highest secondary level	Without post-school qualifications		Total (b)	Total (c)
	Degree or equivalent	Trade, technical level	Total (a)		Did not attend highest level of secondary school and left at age (years)			
					16 or over	15 or under		
MALES								
Employed—								
1979	313.6	1,235.1	1,575.6	441.6	534.4	1,311.7	2,295.3	3,900.0
1980	310.3	1,266.3	1,601.1	452.3	564.1	1,287.3	2,317.2	3,950.8
1981	353.4	1,322.0	1,703.1	474.4	555.1	1,283.7	2,321.5	4,057.1
1982	363.7	1,399.2	1,789.1	483.3	570.5	1,198.1	2,259.9	4,082.9
Unemployed—								
1979	6.6	45.4	53.4	30.8	47.7	98.0	177.4	241.1
1980	10.7	38.0	50.5	22.7	53.9	93.1	169.9	229.7
1981	8.9	36.1	45.4	28.7	49.3	91.7	170.2	225.5
1982	8.4	41.6	50.6	35.2	61.9	94.6	192.3	251.7
Total labour force—								
1979	320.2	1,280.6	1,629.0	472.4	582.1	1,409.7	2,472.8	4,141.1
1980	321.0	1,304.3	1,651.6	475.0	618.1	1,380.3	2,487.2	4,180.5
1981	362.3	1,358.1	1,748.5	503.2	604.5	1,375.5	2,491.7	4,282.5
1982	372.1	1,440.9	1,839.7	518.5	632.4	1,292.7	2,452.3	4,334.7
Not in the labour force(d)—								
1982	38.9	215.3	257.2	96.2	72.7	525.8	707.9	1,128.1
Civilian population aged 15 and over(d)—								
1982	410.9	1,656.1	2,096.9	614.7	705.1	1,818.5	3,160.2	5,462.8
FEMALES								
Employed—								
1979	111.4	538.8	667.1	252.9	366.3	806.5	1,430.0	2,134.6
1980	119.4	586.2	727.8	258.2	414.5	789.8	1,466.0	2,228.7
1981	145.1	632.8	801.9	272.2	399.6	753.5	1,430.5	2,270.5
1982	153.9	655.5	833.0	283.7	410.0	741.9	1,440.4	2,314.6
Unemployed—								
1979	*	41.4	50.3	29.5	44.8	86.4	160.7	219.0
1980	*	39.9	46.4	29.3	49.5	76.8	157.2	213.1
1981	10.7	36.7	51.3	24.5	48.3	62.6	136.2	196.9
1982	12.8	50.8	65.5	33.6	47.1	74.3	155.4	232.7
Total labour force—								
1979	117.1	580.2	717.4	282.4	411.1	892.8	1,590.6	2,353.6
1980	124.0	626.1	774.2	287.5	464.0	866.6	1,623.2	2,441.8
1981	155.8	669.5	853.2	296.6	448.0	816.0	1,566.7	2,467.5
1982	166.7	706.3	898.5	317.2	457.1	816.3	1,595.7	2,547.3
Not in the labour force(d)—								
1982	67.5	449.0	536.9	267.1	397.3	1,639.1	2,329.8	3,018.0
Civilian population aged 15 and over(d)—								
1982	234.2	1,155.3	1,435.4	584.3	854.4	2,455.2	3,925.6	5,565.2
PERSONS								
Employed—								
1979	425.0	1,773.9	2,242.7	694.5	900.6	2,118.1	3,725.3	6,034.6
1980	429.7	1,852.5	2,329.0	710.5	978.5	2,077.1	3,783.3	6,179.5
1981	498.5	1,954.8	2,505.0	746.6	954.9	2,037.1	3,752.0	6,327.6
1982	517.6	2,054.8	2,622.1	766.9	980.5	1,940.0	3,700.3	6,397.5
Unemployed—								
1979	12.3	86.8	103.7	60.3	92.5	184.4	338.1	460.1
1980	15.4	77.9	96.9	52.0	103.4	169.8	327.1	442.8
1981	19.6	72.8	96.7	53.2	97.6	154.3	306.4	422.4
1982	21.2	92.4	116.1	68.7	108.9	168.9	347.7	484.4
Total labour force—								
1979	437.3	1,860.7	2,346.4	754.8	993.2	2,302.5	4,063.4	6,494.7
1980	445.1	1,930.4	2,425.8	762.5	1,081.9	2,246.9	4,110.4	6,622.3
1981	518.1	2,027.6	2,601.7	799.8	1,052.4	2,191.5	4,058.4	6,750.0
1982	538.8	2,147.2	2,738.2	835.7	1,089.4	2,108.9	4,048.0	6,881.9
Not in the labour force(d)—								
1982	106.3	664.3	794.0	363.4	470.1	2,164.8	3,037.7	4,146.1
Civilian population aged 15 and over(d)—								
1982	645.1	2,811.4	3,532.2	1,199.0	1,559.5	4,273.8	7,085.7	11,028.0

(a) Includes person with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.  
(d) In 1979, 1980 and 1981 only persons in the labour force were surveyed. See Explanatory notes, paragraph 11.

**TABLE 16. UNEMPLOYED PERSONS : EDUCATIONAL ATTAINMENT, UNEMPLOYMENT RATE, MEDIAN AND AVERAGE DURATION OF CURRENT PERIOD OF UNEMPLOYMENT, 1979 TO 1982**

	With post-school qualifications			Without post-school qualifications			
	Degree or equivalent	Trade, technical level	Total (a)	Attended highest secondary level	Did not attend highest level of secondary school	Total (b)	Total (c)
MALES							
Unemployment rate (per cent)—							
1979	2.1	3.5	3.3	6.5	7.3	7.2	5.8
1980	3.3	2.9	3.1	4.8	7.4	6.8	5.5
1981	2.7	2.5	2.6	5.7	7.1	6.8	5.3
1982	2.3	2.9	2.7	6.8	8.1	7.8	5.8
Average duration (weeks)—							
1979	12.3	26.1	24.0	19.8	39.3	36.1	32.4
1980	18.6	24.6	24.0	15.7	32.9	30.6	28.4
1981	19.4	25.2	23.9	26.2	41.1	38.6	34.5
1982	20.6	31.0	29.0	22.3	37.5	34.9	32.9
Median duration (weeks)—							
1979	8.6	12.2	11.5	11.0	18.4	16.6	14.2
1980	9.8	8.8	9.6	10.8	15.7	14.1	12.3
1981	9.1	9.5	9.3	11.5	19.4	16.9	12.8
1982	8.1	11.8	11.0	10.0	14.4	13.1	12.2
FEMALES							
Unemployment rate (per cent)—							
1979	*	7.1	7.0	10.4	10.1	10.1	9.3
1980	*	6.4	6.0	10.2	9.5	9.7	8.7
1981	6.9	5.5	6.0	8.2	8.8	8.7	8.0
1982	7.7	7.2	7.3	10.6	9.5	9.7	9.1
Average duration (weeks)—							
1979	*	21.6	21.0	19.4	27.8	26.3	24.5
1980	*	20.6	21.4	20.6	29.7	28.6	26.5
1981	16.4	22.9	20.8	21.3	31.8	30.0	26.8
1982	12.8	20.4	19.4	20.1	31.8	29.2	25.6
Median duration (weeks)—							
1979	*	7.3	7.6	8.6	10.8	10.2	9.5
1980	*	9.1	9.4	10.0	11.1	11.0	10.6
1981	10.1	10.3	9.8	10.5	11.4	11.2	10.6
1982	8.6	8.4	8.6	8.7	11.1	10.4	9.6
PERSONS							
Unemployment rate (per cent)—							
1979	2.8	4.7	4.4	8.0	8.4	8.3	7.1
1980	3.5	4.0	4.0	6.8	8.2	8.0	6.7
1981	3.8	3.6	3.7	6.7	7.8	7.5	6.3
1982	3.9	4.3	4.2	8.2	8.7	8.6	7.0
Average duration (weeks)—							
1979	12.1	24.0	22.6	19.6	33.9	31.4	28.6
1980	20.1	22.5	22.7	18.5	31.4	29.6	27.5
1981	17.8	24.0	22.2	24.0	37.0	34.8	30.9
1982	15.9	25.2	23.6	21.2	35.0	32.4	29.4
Median duration (weeks)—							
1979	8.2	9.5	9.4	9.4	13.1	12.3	11.5
1980	9.6	9.0	9.5	10.5	12.6	12.3	11.5
1981	9.7	9.9	9.6	11.1	15.1	13.0	11.8
1982	8.5	9.9	9.6	9.2	12.5	11.8	10.9

(a) Includes person with other post-school qualifications. (b) Includes persons who never attended school. (c) Includes persons aged 15 to 20 years still at school.

## TECHNICAL NOTE

### Estimation procedure

The estimates are derived from the population survey by use of a ratio estimation procedure which ensures that the estimates conform to an independently estimated distribution of the population for each capital city and remainder of State by age and sex, rather than to the corresponding distribution within the sample itself.

### Reliability of the estimates

2. Since the estimates in this publication are based on information obtained from occupants of a sample of dwellings, they are subject to sampling variability; that is, they may differ from the figures that would have been produced if all dwellings had been included in the survey. One measure of the likely difference is given by the *standard error*, which indicates the extent to which an estimate might have varied by chance because only a sample of dwellings was included. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all dwellings had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of the likely difference is the *relative standard error*, which is obtained by expressing the standard error as a percentage of the estimate.

3. Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors for general application is given on the following page. Since they are averages based on calculations for a limited number of past surveys over a wide range of labour force characteristics these figures will not give a precise measure of the standard error of a particular estimate but they will provide an indication of its magnitude.

4. An example of the calculation and the use of standard errors in relation to estimates of persons is as follows. From Table 1 the estimated number of persons in the labour force with post-school qualifications is 2,738,200. Since this estimate is between 2,000,000 and 5,000,000 the standard error for Australia will be between 13,000 and 17,050 in the standard error table and can be approximated as 14,000 (rounded to the nearest 100). Therefore there are about two chances in three that the value that would have been produced if all dwellings had

been included in the survey will fall in the range 2,724,200 to 2,752,200 and about nineteen chances in twenty that the value will fall within the range 2,710,200 and 2,766,200. This example is illustrated in the diagram.

5. As can be seen from the standard error table, *the smaller the estimate the higher is the relative standard error*. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication, estimates less than the lowest levels shown in the standard error table have not been published. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

6. Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends on the accuracy of both the numerator and the denominator. The formula for the relative standard error (RSE) of a proportion is given below:

$$RSE (x/y) = \sqrt{[RSE(x)]^2 + [RSE(y)]^2}$$

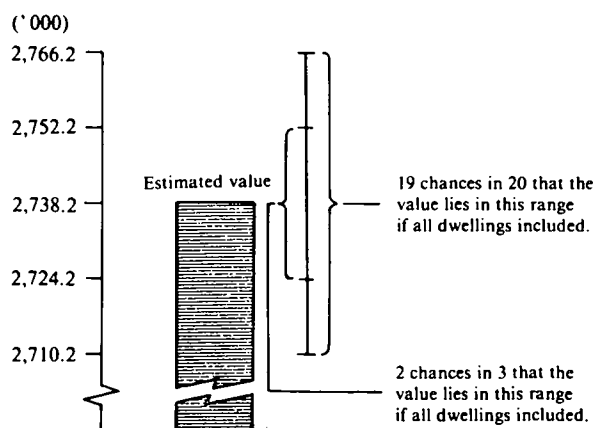
7. Considering the example from paragraph 4 above, these persons as a proportion of the total population with post-school qualifications (3,532,200) gives the participation rate — 77.5 per cent. The standard error for 3,532,200 is approximately 15,100 so the relative standard error is 0.4 per cent. The relative standard error for 2,738,200 is 0.5 per cent. Applying the above formula, the relative standard error of the proportion is  $\sqrt{(0.5)^2 + (0.4)^2}$  or 0.3 per cent, giving a standard error for the proportion (77.5 per cent) of 0.2 percentage points. Therefore, there are about two chances in three that the proportion, i.e. participation rate, for persons with post-school qualifications is between 77.3 per cent and 77.7 per cent and nineteen chances in twenty the proportion is within the range 77.1 per cent to 77.9 per cent.

8. Published figures may also be used to estimate the difference between two survey estimates (of numbers or percentages). Such a figure is itself an estimate and is therefore subject to sampling error. The sampling error of the difference between two estimates depends on their standard errors and the relationship (correlation) between them. An approximate standard error (SE) of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE (x-y) = \sqrt{[SE(x)]^2 + [SE(y)]^2}$$

While this formula will only be exact for differences between separate and uncorrelated characteristics or sub-populations, it is expected to provide a good approximation for all differences likely to be of interest in this publication.

9. The imprecision due to sampling variability, which is measured by the standard error, should not be confused with inaccuracies that may occur because of imperfections in reporting by interviewers and respondents and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as the *non-sampling error*, and they may occur in any enumeration, whether it be a full count or only a sample.



## STANDARD ERRORS OF ESTIMATES

Size of estimate	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Australia	
									Relative standard error (per cent)	
									— number —	
1,500						350				
2,300				550	550	400	550	550		
3,000				650	650	450	650	600		
3,500			850	650	700	500	700	600		
4,000			900	700	700	500	700	650		
4,500			950	750	750	550	750	700	1100	24.9
5,000	1250	1250	1000	800	800	550	800	700	1200	23.6
6,000	1350	1350	1050	850	850	600	850	750	1300	21.5
7,000	1450	1400	1150	900	900	650	900	800	1400	19.9
10,000	1700	1650	1350	1050	1050	750	1050	850	1650	16.5
20,000	2350	2200	1750	1350	1400	950	1350	1050	2250	11.3
50,000	3400	3100	2500	1850	1900	1250	1900	1300	3400	6.8
100,000	4450	4000	3250	2350	2400	1450	2450	1450	4500	4.5
200,000	5750	5050	4100	2950	2950	1750		1600	5900	2.9
300,000	6650	5700	4700	3300	3300				6850	2.3
500,000	7900	6650	5550	3850	3800				8250	1.6
1,000,000	9800	8050	6850						10400	1.0
2,000,000	12000	9650							13000	0.7
5,000,000	15350	11850							17050	0.4

— Estimates below the levels indicated have not been published, see paragraph 5 above.